



13 Bataan Blvd Santa Fe, NM 87508

unknown

FAX To: Regional Environmental Department 111-111-1111

SERC/LEPC Notification Form

Facility Name:	Square Lake Booster	Date:	1/3/2022 12:14 PM	County:	EDDY
Location:	Event GPS Coordinates: 32.8674, -103.9846 Driving Directions: (Lat: 32.8674, Long: -103.9846); From Hagerman Cutoff Rd (CR-217) & US-82 located on the west side of Loco Hills NM (50 miles WNW of Hobbs), drive 3.4 miles Non Hagerman Cutoff Rd to the Booster Station on the right.				<input checked="checked" type="checkbox"/> Initial Report <input type="checkbox"/> Updated Report <input type="checkbox"/> Final Report

Type of Incident:	Upset	Release Occurred To:	Air	Release Type:	Flared
Started On:	1/2/2022 6:00 AM	Ended On:	1/2/2022 3:00 PM	Discovered On:	1/2/2022 6:00 AM

Event Duration:

540 Minutes

Material Released:**Material Composition:**

Pentane 0.557%, Ethane 13.6%, Methane 70.069%, Propane 7.3%, Hydrogen Sulfide 0.141%, Carbon Dioxide 0.662%, Isopentane 0.532%, Hexane 0.981%, Nitrogen 3.156%, Isobutane 0.851%, Butane 2.152%, Hydrogen Sulfide 0.141%,

Calculations:

Compound Calculation Used to Obtain Released Amount

Nitrogen Dioxide: $698000 \text{ {scf/event}} * 1332.53118099492 \text{ {MMbtu/scf}} * 0.138 \text{ {lb/MMbtu}} * 0.05$ Nitrogen Dioxide: $698000 \text{ {scf/event}} * 1332.53118099492 \text{ {MMbtu/scf}} * 0.138 \text{ {lb/MMbtu}} * 0.05$ Pentane: $698000 \text{ {scf/event}} * 0.00556999981403351 \text{ {mole fraction}} * 72.1488 \text{ {lb/lb-mole}} * \{1 - 95\} / 379.3 \text{ {scf/lb-mole}}$ Propane: $698000 \text{ {scf/event}} * 0.0730000019073486 \text{ {mole fraction}} * 44.0956 \text{ {lb/lb-mole}} * \{1 - 95\} / 379.3 \text{ {scf/lb-mole}}$ Isopentane: $698000 \text{ {scf/event}} * 0.00532000005245209 \text{ {mole fraction}} * 72.1488 \text{ {lb/lb-mole}} * \{1 - 95\} / 379.3 \text{ {scf/lb-mole}}$ Hexane: $698000 \text{ {scf/event}} * 0.00981000006198883 \text{ {mole fraction}} * 86.1754 \text{ {lb/lb-mole}} * \{1 - 95\} / 379.3 \text{ {scf/lb-mole}}$ Isobutane: $698000 \text{ {scf/event}} * 0.00851000010967255 \text{ {mole fraction}} * 58.1222 \text{ {lb/lb-mole}} * \{1 - 95\} / 379.3 \text{ {scf/lb-mole}}$ Butane: $698000 \text{ {scf/event}} * 0.0215199995040894 \text{ {mole fraction}} * 58.1222 \text{ {lb/lb-mole}} * \{1 - 95\} / 379.3 \text{ {scf/lb-mole}}$ Nitrogen Oxides: $698000 \text{ {scf/event}} * 1332.53118099492 \text{ {MMbtu/scf}} * 0.138 \text{ {lb/MMbtu}}$ Carbon Monoxide: $698000 \text{ {scf/event}} * 1332.53118099492 \text{ {MMbtu/scf}} * 0.2755 \text{ {lb/MMbtu}}$ Sulfur Dioxide: $698000 \text{ {scf/event}} * 0.00141000002622604 \text{ {mole fraction}} * 34.08088 \text{ {lb/lb-mol}} / 379.3 \text{ {scf/lb-mol}} * 64.064 \text{ {lb/lb-mole}} / 34.08088 \text{ {lb/lb-mol}} * 95$ Hydrogen Sulfide: $698000 \text{ {scf/event}} * 0.00141000002622604 \text{ {mole fraction}} * 34.08088 \text{ {lb/lb-mole}} * \{1 - 95\} / 379.3 \text{ {scf/lb-mole}}$ Ethane: $698000 \text{ {scf/event}} * 0.136000003814697 \text{ {mole fraction}} * 30.069 \text{ {lb/lb-mole}} * \{1 - 95\} / 379.3 \text{ {scf/lb-mole}}$ Nitrogen: $698000 \text{ {scf/event}} * 0.0315599989891052 \text{ {mole fraction}} * 28.0134 \text{ {lb/lb-mole}} * \{1 - 95\} / 379.3 \text{ {scf/lb-mole}}$ **Violations:****Known or anticipated acute or chronic health risks associated with the emergency:****Medical attention advised for exposed individuals:****Cause of the upset:**

The instrument air system (IA) at the DCP RJ Booster site failed offline due to hydrate blockages in sensing and supply lines due to the unusual and extremely cold ambient temperatures during the area wide winter storm. This caused the RJ booster station to trip offline and pressure up the gathering system which it shares with the Square lake booster site. Once the gathering system pressure rose above the emergency flare set point (at Square lake) the emergency flare activated, protecting the gathering system pipeline and equipment.

Actions taken to correct the upset and minimize emissions:

On call an overtime operations staff confronted the IA line freeze ups as well as a multitude of other problems caused by the unseasonably cold temperatures and extreme winter storm conditions. Once operations brought RJ booster online and return the other area boosters to steady state conditions, the shared gathering system line pressure fell below the set point and closed the emergency flare valve at Square Lake Booster.

Precautions taken as a result of the release:

A. AI Number 374	N. Failure Pt No: O. Failure Pt. Description: Unknown Flare/Combustion Control Device				
A. NOx: 128.35 lb	B. SO2: 157.92 lb	C. CO: 256.24 lb	D. PM:	E. VOC: 606.86 lb	F. H2S: 4.42 lb

SERC Email Notification:	henry.jolly@state.nm.us	LEPC Email Notification:	jarmendariz@eddyoem.com
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District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 69904

DEFINITIONS

Operator: DCP OPERATING COMPANY, LP 370 17th Street, Suite 2500 Denver, CO 80202	OGRID: 36785
	Action Number: 69904
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: <ul style="list-style-type: none">• this application's operator, hereinafter "this operator";• venting and/or flaring, hereinafter "vent or flare";• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";• the statements in (and/or attached to) this, hereinafter "the statements in this";• and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 69904

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	Action Number: 69904
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS**Prerequisites**

Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.

Incident Operator	[36785] DCP OPERATING COMPANY, LP
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Not answered.
Incident Facility	[FEEM0416235763] North Square Lake Booster Station

Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.

Determination of Reporting Requirements

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, major venting and/or flaring of natural gas.

An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.

Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Gas Compressor Station
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	70
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (CO2) percentage, if greater than one percent	1
Oxygen (O2) percentage, if greater than one percent	0

If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.

Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 69904

QUESTIONS (continued)

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	Action Number: 69904
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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/02/2022
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	03:00 PM
Cumulative hours during this event	9

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Freeze Gas Compressor Station Natural Gas Flared Released: 698 Mcf Recovered: 0 Mcf Lost: 698 Mcf
Other Released Details	Cause: Other (Specify) Released: 0 (Unknown Released Amount) Recovered: 0 Lost: 0
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control	True
Please explain reason for why this event was beyond this operator's control	The instrument air system (IA)at the DCP RJ Booster site failed offline due to hydrate blockages in sensing and supply lines due to the unusual and extremely cold ambient temperatures during the area wide winter storm. This caused the RJ booster station to trip offline and pressure up the gathering system which it shares with the Square lake booster site. Once the gathering system pressure rose above the emergency flare set point (at Square lake) the emergency flare activated, protecting the gathering system pipeline and equipment.
Steps taken to limit the duration and magnitude of vent or flare	On call an overtime operations staff confronted the IA line freeze ups as well as a multitude of other problems caused by the unseasonably cold temperatures and extreme winter storm conditions.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Once operations brought RJ booster online and return the other area boosters to steady state conditions, the shared gathering system line pressure fell below the set point and closed the emergency flare valve at Square Lake Booster.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
<input checked="" type="checkbox"/>	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
<input checked="" type="checkbox"/>	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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	Action Number: 69904
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
nlcase	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	1/3/2022